

CBL Rabbit mAb
Catalog # AP75206

Specification

CBL Rabbit mAb - Product Information

Application	WB, IF
Primary Accession	P22681
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	99633

CBL Rabbit mAb - Additional Information

Gene ID 867

Other Names

CBL

Dilution

WB~~1/500-1/1000

IF~~1/50-1/200

Format

Liquid

CBL Rabbit mAb - Protein Information

Name CBL

Synonyms CBL2, RNF55

Function

E3 ubiquitin-protein ligase that acts as a negative regulator of many signaling pathways by mediating ubiquitination of cell surface receptors (PubMed:[10514377](http://www.uniprot.org/citations/10514377)), PubMed:[11896602](http://www.uniprot.org/citations/11896602)), PubMed:[14661060](http://www.uniprot.org/citations/14661060)), PubMed:[14739300](http://www.uniprot.org/citations/14739300)), PubMed:[15190072](http://www.uniprot.org/citations/15190072)), PubMed:[17509076](http://www.uniprot.org/citations/17509076)), PubMed:[18374639](http://www.uniprot.org/citations/18374639)), PubMed:[19689429](http://www.uniprot.org/citations/19689429)), PubMed:[21596750](http://www.uniprot.org/citations/21596750)), PubMed:[28381567](http://www.uniprot.org/citations/28381567)). Accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome (PubMed:[10514377](http://www.uniprot.org/citations/10514377)), PubMed:[10514377](http://www.uniprot.org/citations/10514377)).

<http://www.uniprot.org/citations/14661060> target="_blank">14661060, PubMed:14739300, PubMed:17094949, PubMed:17509076, PubMed:17974561). Recognizes activated receptor tyrosine kinases, including KIT, FLT1, FGFR1, FGFR2, PDGFRA, PDGFRB, CSF1R, EPHA8 and KDR and mediates their ubiquitination to terminate signaling (PubMed:15190072, PubMed:18374639, PubMed:21596750). Recognizes membrane-bound HCK, SRC and other kinases of the SRC family and mediates their ubiquitination and degradation (PubMed:11896602). Ubiquitinates EGFR and SPRY2 (PubMed:17094949, PubMed:17974561). Ubiquitinates NECTIN1 following association between NECTIN1 and herpes simplex virus 1/HHV-1 envelope glycoprotein D, leading to NECTIN1 removal from cell surface (PubMed:28381567). Participates in signal transduction in hematopoietic cells. Plays an important role in the regulation of osteoblast differentiation and apoptosis (PubMed:15190072, PubMed:18374639). Essential for osteoclastic bone resorption (PubMed:14739300). The 'Tyr-731' phosphorylated form induces the activation and recruitment of phosphatidylinositol 3-kinase to the cell membrane in a signaling pathway that is critical for osteoclast function (PubMed:14739300). May be functionally coupled with the E2 ubiquitin-protein ligase UB2D3. In association with CBLB, required for proper feedback inhibition of ciliary platelet-derived growth factor receptor-alpha (PDGFRA) signaling pathway via ubiquitination and internalization of PDGFRA (By similarity).

Cellular Location

Cytoplasm. Cell membrane. Cell projection, cilium. Golgi apparatus. Note=Colocalizes with FGFR2 in lipid rafts at the cell membrane

CBL Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CBL Rabbit mAb - Images



